

ADAS Subroutine d4tlog

SUBROUTINE D4TLOG(INTYP, ITVAL, TEMP)

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C
C ***** FORTRAN77 SUBROUTINE: D4TLOG *****
C
C PURPOSE:      TO CONVERT AN ARRAY OF LOG10(TEMPERATURES) FROM:
C               (KELVIN TO ELECTRON VOLTS) OR (ELECTRON VOLTS TO KELVIN)
C
C CALLING PROGRAM:  D4OUTF
C
C SUBROUTINE:
C
C INPUT  :      (I*4)  INTYP   = 1 => INPUT 'TEMP(array)' UNITS: KELVIN
C               = 2 => INPUT 'TEMP(array)' UNITS: eV
C INPUT  :      (I*4)  ITVAL   = NUMBER OF TEMPERATURES IN 'TIN(array)'
C I/O    :      (R*8)  TEMP()  = LOG10(INPUT TEMPERATURES (STATED UNITS))
C
C               (R*8)  EV2KEL  = LOG10( ELEC.VOLTS TO KELVIN CONVERSION)
C               (R*8)  TCONV   = TEMPERATURE CONVERSION PARAMETER
C
C ROUTINES:  NONE
C
C NOTE:
C           TEMPERATURE CONVERSION PARAMETERS:
C
C           INTYP = 1 ; TCONV =>           KELVIN  -> eV
C           INTYP = 2 ; TCONV =>           eV     -> KELVIN
C
C AUTHOR:  PAUL E. BRIDEN (TESSELLA SUPPORT SERVICES PLC)
C          K1/0/81
C          JET EXT. 4569
C
C DATE:    08/10/90
C
C UNIX-IDL PORT:
C
C VERSION: 1.1 DATE: 11-11-96
C MODIFIED: WILLIAM OSBORN (TESSELLA SUPPORT SERVICES PLC)
C - FIRST CONVERTED
C-----
C
C-----
C
C          INTEGER          INTYP,          ITVAL
C          REAL*8           TEMP(ITVAL)
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